



Concrete Admixtures and Fiber

FLOWMIX-C

Medium and High-Range Water Reducer - Retarder

DESCRIPTION

FLOWMIX-C is a concentrated plasticizer, set retarder and medium or high-range water reducer for concrete. Concrete treated with **FLOWMIX-C** maintains slump for prolonged periods in accordance with the requirements of the job. It is designed to provide increased workability and placement time.

USES

FLOWMIX-C is used to deliver concrete greater distances from the plant, up to four or more hours, depending on the dosage. It is also used for pumping concrete to great heights and for structures containing large amounts of reinforcing steel.

FLOWMIX-C is used in concrete for airports, dams, highways and high-rise buildings and is ideal for concrete with special temperature requirements and high quality standards.

ADVANTAGES

- Maintains slump at temperatures greater than 100°F (38°C)
- Maintains slump for up to four hours or more
- Reduces the mixing water required by up to 25% while maintaining workability
- Provides a mix more sensitive to vibration, producing concrete with fewer voids and a cleaner appearance. This is helpful for architectural concrete.
- Creates denser, less permeable concrete

TECHNICAL INFORMATION

FLOWMIX-C reacts with cement in its plastic phase, putting it in a dormant state for a period of time controlled by adjusting the dosage used. The loss of slump during this period is minimal and the initial heat of hydration remains low. The initial temperature of the concrete does not rise during its plastic phase.

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This quality makes it possible to control the concrete temperature during its plastic state, even at temperatures over 80°F. This ability to maintain the temperatures is particularly desirable,3 in cases where it is required to lower the concrete temperature by adding ice or chilled water, because FLOWMIX-C will maintain the initial temperature of the concrete until placement is completed.

FLOWMIX-C meets ASTM C494, latest revision for Types D and G and contains no chlorides or chloride ions.

DOSAGE

Per ASTM C-494

Type B or D: 4 to 6 oz. Per 100 Lb. of cement (0.26L to 0.39 L per 100 Kg of cement)

Type G: 7 to 14 oz. Per 100 Lb. of cement (0.39L to 0.91L per 100 Kg of cement)

APPLICATION

FLOWMIX-C is introduced to the concrete with the mixing water. The dosage is variable according to the ambient temperature, retardation required and length of slump maintenance needed.

FLOWMIX-C should not be used in combination with any other retarding admixtures of unknown composition. However, FLOWMIX-C can be combined with any IMI admixture retarder, normal-set or superplasticizer unless a combined dosage rate of 24 fl. Oz. per 100 lbs of cement (1.5 L per 100 kg of cement) is maintained.